ARFF vehicle to the NoFoam trailer and connects battery-powered and rechargeable by a solar panel. By turning a valve, the vehicle AFFF concentrate fluid is isolated during the discharge test. From here, the firefighter continues on with the discharge procedures. For maintenance verification, the flow rate of the surrogate fluid is recorded as the measure of the foam distribution system's performance. This number is accepted as the representative figure for the flow rate of AFFF concentrate being delivered into the vehicle's foam distribution system, and can be read off of the monitor connected to a meter installed in the

firefighters an option to use dye-water solution for performance. The dye used for this purpose is environmentally benign, biodegradable, and certified by the National Sanitation Foundation International and the American National Standard Institute. Both are industry standards adopted by the Department of Defense.

The NoFoam Unit was developed by the NAVFAC **Engineering and Expeditionary Warfare Center** (NAVFAC EXWC) under the sponsorship of the Environmental Security Technology Certification Program (ESTCP) and the Environmental Protection Safety and Occupational Health Division of the Chief of Naval Operations.



Benefits

- Test the on-board foam distribution system on ARFF vehicles without releasing AFFF wastewater into the environment
- Validate the functionality of on-board foam distribution system
- Give firefighters the option to conduct secondary discharge tests using dye water and increase mission readiness
- Reduce AFFF concentrate procurement cost
- Assist facilities to comply with relevant Federal pollution and waste minimization regulations
- Adaptable to any model of ARFF vehicle
- Require minimal user training for operation and maintenance

Costs

- NoFoam System Trailer = \$19K
- Depending on the model of ARFF vehicle, retrofit module = \$1K - \$2K per vehicle
- Travel, installation, testing and user training
 \$10K, based on retrofitting three P19
 ARFF vehicles at one location

Availability

 NoFoam System technology may be acquired by contacting the NAVFAC EXWC

Sponsored By:

Navy Environmental Sustainability Development to Integration (NESDI) Program

Environmental Security Technology Certification Program (ESTCP) - Project # - SI-0026



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